

TECHFIN CHEMICAL REPAIR MORTAR

Rapid Setting Repair Grout

Techfin Chemical Repair Mortar is a ready to use grout which chemically sets within minutes to form an extremely hard mortar repair. Formulated to give controlled high early strength properties for rapid repairs to traffic areas and for low temperature repair work. Ideal for environments usually corrosive to concrete and cold rooms where cementitious grouts do not perform.

BENEFITS:



*High early strength.
Highly durable, excellent
resistance to deicing salts.*



*Minimum delays to traffic.
1 hour cure to traffic.*



Self-priming.



*Bond strength \pm 7 times greater
than that of concrete.*



No curing required.



Non-shrink.



*No pre-saturation of substrate
required.*



*Thermal expansion and
contraction similar to ordinary
Portland Cement.*

TECHNICAL DETAILS

Appearance	Light grey powder
Mix Ratio	2 - 2.5 L water per 25 kg
Equipment	Pan-Mixer
Yield	12 L
Initial Set Time	\pm 10 minutes
Final Set Time	\pm 1 - 2 hours
Coverage	1.2 m ² at 10 mm
Minimum Thickness	10 mm
Maximum Thickness	None
Compressive Strength:	
1 Day	18 MPa
7 Days	25 MPa
28 Days	30 MPa
PACKAGING	
Techfin Chemical Repair Mortar is supplied in 25 kg bags.	

APPLICATIONS

- Cold room floor and cold weather repairs
- Industrial floors, concrete roads and pre-cast concrete, crane rails and base plates
- Loading bays, Platforms, Parking Decks, Ramps
- Bedding mortar, Joint repairs
- Grouting of bolts and pipes
- Raising and levelling manhole covers, gratings, hydrants

SHELF-LIFE

12 Months when stored in a cool, dry place.

STRENGTH DEVELOPMENT

The strength development of the placed material is largely dependent on the quantity of water used in mixing, the temperature of both the substrate, product and ambient conditions.

PREPARATION

Concrete surfaces must be clean, sound and free of all contamination such as dirt, dust, debris grease, acids, oil and curing membranes. Ensure the area to receive product is dry.

SUBSTRATE

Areas for repair must be square cut to a minimum depth of 10 mm and roughened. Do not feather edge this material. When reinforcing bars are exposed ensure that they are thoroughly wire brushed or sand blasted prior to application. Do not use bonding compounds on the reinforcing steel.

PRIMING

No priming is required. No pre-saturation with water required.

SPECIAL CONDITIONS

All surfaces and materials must be preconditioned and maintained between 2 - 32 °C. Below 2 °C and down to -30 °C, preheat the mixer with hot water before mixing. Warm substrates with infra-red lamps or suitable heater to ensure no ice is present. Precondition materials to as high a temperature as possible between 2 - 32 °C and use water at 30 °C. High temperatures will result in faster cure and strength development. In hot working conditions, use ice cold water to allow sufficient working life of the product.

MIXING

Mix small quantities at a time as follows:

PATCHES: 5 kg to 400 ml - 500 ml of water

MORTAR: 1 x 25 kg bag to 2 - 2.5 liters of water

CONCRETE: 1 x 25 kg bag to 2 liters of water

Add the water to a suitable mixing vessel. Add the powder to the water slowly while mixing with a mechanical mortar mixer or pan mixer. Mix until a uniformly mixed consistency. Immediately place the material in the desired area. Compact and float

with a steel trowel. Once material is placed, immediately cover with polystyrene sheets to protect from freezing overnight.

BULKING OF MATERIAL

For larger and deeper areas to be repaired the addition of 5 - 7 mm stone may be necessary. Approximately 25 kg stone per 1 x 25 kg Repair Mortar. A small addition of water may be necessary to adjust workability (500 ml – 1 L approximately). The use of a pan-mixer or concrete mixer is advised.

SEALING

Not required. The repair can be painted over once set hard with suitable preparation.

CLEANING

Clean tools and surfaces with water.

STORAGE

Store the product in closed bags in a cool, dry place. Do not expose to humidity or rising damp while in storage.

HEALTH AND SAFETY:

Use gloves when handling this product. Avoid direct skin contact. Keep away from chlorine based products.

Please read Safety Data Sheet and specific health and safety data for this product provided in compliance with the requirements of OHS No.85 of 1993. The finished system is not hazardous to health or the environment.

WARRANTY

Technical Finishes products are manufactured under high quality standards and are warranted against defective materials and are sold subject to standard Terms and Conditions of Sale, copies of which can be obtained upon request. Technical Finishes deals with approved applicators and carry a back to back warranty with these clients. Technical Finishes cannot be held responsible for the workmanship in surface preparation and application of our products, it is understood that the approved contractor will guarantee such workmanship and application. It is vital that the application is done in accordance to our specification.

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